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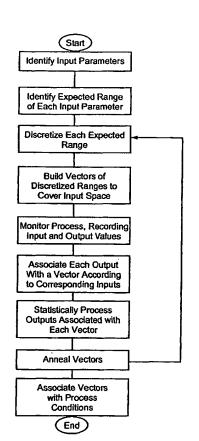
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(54) Title: SYSTEM AND METHOD FOR MONITORING PROCESS QUALITY CONTROL



(57) Abstract: A system and method for monitoring process quality control. A series of input parameters are identified as being significant in effecting the output of a process. Each input parameter has an expected range. Each expected range is discretized into a series of sub-ranges and a vector is built for each possible combination of sub-ranges. The process is then monitored to obtain a statistically significant set of samples, each sample comprising a process output and corresponding inputs (Fig. 2). A knowledge base and model are built (Fig. 5).

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PCT/IL01/00937

| A. CLASSIFICATION OF SUBJECT MATTER IPC(7) : G06F 7/60, 17/10, 17/50; G06G 7/48 US CL : 703/2, 6, 13 According to International Patent Classification (IPC) or to both national classification and IPC | | | | |
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| B. FIELDS SEARCHED | | | | |
| Minimum documentation searched (classification system followed by classification symbols) U.S.: 703/2, 6, 13 | | | | |
| Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched | | | | |
| Electronic data base consulted during the international search (name of data base and, where practicable, search terms used) Please See Continuation Sheet | | | | |
| C. DOCUMENTS CONSIDERED TO BE RELEVANT | | | | |
| Category * | Citation of document, with indication, where appropriate, of the relevant passages | | | Relevant to claim No. |
| Х | US 5,866,437 A (CHEN et al.) 02 February 1999 (02.02.1999), Abstract, Figures 2-3, Background of the Invention, Summary of the Invention, col 2, lines 64 et seq. | | | 1-26 |
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| х | US 5,956,251 A (ATKINSON et al.) 21 September 1999 (21.09.1999), Abstract, Figures 1-17, Background of the Invention, Summary of the Invention, col.7, lines 33 et seq. | | | 1-26 |
| х | US 5,781,430 A (TSAI et al.) 14 July 1998 (14.07.1998), Abstract, Figures 1-17, Background of the Invention, Summary of the Invention, col. 3, lines 45 et seq. | | | 1-26 |
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The technical features mentioned in the abstract do not include a reference sign between parentheses (PCT Rule 8.1(d)).

NEW ABSTRACT

A system and method for monitoring process quality control. A series of input parameters are identified as being significant in effecting the output of a process. Each input parameter has an expected range. Each expected range is discretized into a series of subranges and a vector is built for each possible combination of sub-ranges. The process is then monitored to obtain a statistically significant set of samples, each sample comprising a process output and corresponding inputs (Fig. 2). A knowledge base and model are built (Fig. 5).